IN THE ABSTRACT:

Please add an abstract as follows:

This disclosure generally relates to display driver circuits for electro-optic displays, and more particularly relates to circuits and methods for driving active matrix organic light emitting diode displays with greater efficiency. A display driver for an electroluminescent display, the display including a plurality of electroluminescent display elements each associated with a display element driver circuit, each display element driver circuit including a drive transistor having a control connection for driving the associated display element in accordance with a voltage on the control connection, the display driver including at least one display element brightness controller to provide an output to drive a control connection to control the electroluminescent output from a display element; a voltage sensor to sense the voltage on a control connection; and a power controller for controlling an adjustable power supply for providing an adjustable voltage to the electroluminescent display to power said drive transistors for driving said display elements, the power controller being configured to provide a control signal to adjust said power supply voltage in response to said sensed voltage.